What is claimed:

- 1. A composition for forming a thermally conductive polymeric material, comprising:
- 5 a least one thermoplastic polymeric material;
 - a thermally conductive filler material; and
 - at least one solvent in which the at least one thermoplastic polymeric material is at least partially soluble.
- 10 2. The composition of claim 1, wherein the filler material is a fiber.
 - 3. The composition of claim 2, wherein the fiber is a carbon fiber.
- 4. The composition of claim 1, wherein the composition includes at least 15 55 wt% of the filler material.
 - 5. The composition of claim 1, wherein the composition includes at least 60 wt% of the filler material.

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- 20 6. The composition of claim 1, wherein the composition includes at least 70 wt% of the filler material.
 - 7. The composition of claim 1, wherein the composition further comprises a second thermally conductive filler material.
 - 8. The composition of claim 7, wherein the second filler material is selected from boron nitride particles, Teflon fibers, Teflon particles and aluminum flakes.

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- A thermally conductive polymeric material, comprising:
 at least one polymeric material; and
 at least 55 wt% of a thermally conductive filler material; and
- 5 10. The thermally conductive polymeric material of claim 9, wherein the thermally conductive filler material is a fiber.
 - 11. The thermally conductive polymeric material of claim 10, wherein the fiber is a carbon fiber.
 - 12. The thermally conductive polymeric material of claim 11, wherein the fiber length is at least about 200 μm .
- 13. The thermally conductive polymeric material of claim 9, further15 comprising a second filler material.
 - 14. The thermally conductive polymeric material of claim 13, wherein the second filler material is selected from boron nitride particles, Teflon fibers, Teflon particles and aluminum flakes.
 - 15. The thermally conductive polymeric material of claim 9, comprising at least 60 wt% of the filler material.
- 16. The thermally conductive polymeric material of claim 10, comprising 25 at least 70 wt% of the filler material.
 - 17. A method for forming a thermally conductive polymeric material, the method comprising the steps of:
- forming a solution by at least partially dissolving a thermoplastic polymeric material in a solvent;
 - adding a thermally conductive filler material to the solution; and removing the solvent from the solution.

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- 18. The method of claim 17, wherein the filler material is a fiber.
- 19. The method of claim 18, wherein the fiber is a carbon fiber.
- 20. The method of claim 18, wherein the length of the fiber before forming the solution is substantially the same as after removing the solvent from the solution.
- 10 21. The method of claim 17, wherein the filler material is added in an amount of at least about 55 wt%.
 - 22. The method of claim 17, wherein the filler material is added in an amount of at least about 60 wt%.
 - 23. The method of claim 17, wherein the filler material is added in an amount of at least about 70 wt%.
- 24. The method of claim 17, further comprising the step of adding a second thermally conductive filler material to the solution.
 - 25. A solvent blending method for forming a thermally conductive polymeric material by blending a thermally conductive fibrous filler with a polymeric material, wherein the length of the thermally conductive fibrous filler after blending is substantially the same as the length of the thermally
- filler after blending is substantially the same as the length of the thermally conductive fibrous filler after forming the thermally conductive polymeric material.

26. A method for minimizing fiber breakage when forming a thermally conductive polymeric material comprising:

forming a solution by at least partially dissolving a polymeric material in a solvent;

adding a thermally conductive filler material to the solution, the thermally conductive filler material comprising fibers; and removing the solvent from the solution.

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